



**Designed to make learning to solder fun!** Mason jar solar lamp, the popular kit for all who want to learn to solder.

The “mason jar solar lamp” soldering kit is perfect for learning about the fundamentals of soldering a circuit board. The extra large solder pads make the first soldering attempts significantly easier. With detailed instructions, different components such as resistors, LEDs, switches etc. are soldered step by step to the circuit board. The result of fully assembling the circuit board and installing it in a mason jar is a cool, fully functioning solar lamp. You’ll continue to have fun with the soldering kit, even after you have assembled all the parts. **Who is the assembly kit suitable for?** For students and trainees, and above all, anywhere soldering courses are being carried out e.g the mason jar solar lamp assembly kit is an excellent choice for schools and workshops. As well as this, the mason jar assembly kit can be used at summer camps, in apprentice workshops and for other soldering activities.

**Features of the mason jar lamp:** The energy from the sun is captured and stored in batteries, thanks to the solar panel.

As soon as it gets dark and as long as the battery has been able to store energy over the course of the day, the 3 LEDs should be able to illuminate automatically. The mason jar light can be changed from summer mode to winter mode, to ensure the longest possible service life. In summer, the lamp functions for at least 5 hours at a time.

**Age recommendation:** From 10 years on. **Number of components:** 19 Stück, **Assembly time:** 60 min. **You will also need:** Mason jar or similar with a lid diameter of 85 mm, Hot glue gun, 5 mm metal drill, Hand counterbore, Soldering iron, Solder.

### Safety notes:

- **ATTENTION! Not suitable for children under 3 years, risk of choking on small parts.**
  - **We recommend:** Supervision of the construction and the soldering process by an adult person!
  - Keep this manual for future reference! It contains important information.
  - When the battery is drained, always replace it with a new battery with the same rating. (600mAh/1.2V).
  - The soldering iron, solder and the parts being soldered become very hot. Be very careful!
  - Always use a mat when soldering! This prevents parts from slipping.
  - We recommend using a soldering iron holder to set the soldering iron down safely during use.
  - This kit is intended for battery operation only. **ATTENTION: Never connect the kit to 230 V mains voltage!**

## Acute danger to life!

**For instructions, please click here:**

